

VEHICLE SUSPENSION SYSTEM
HAVING A TORSION SPRING ASSEMBLY

ABSTRACT OF THE DISCLOSURE

A suspension system for a vehicle. A control arm is attachable
5 to the vehicle frame by a first bushing and by a second bushing and is attachable
to the knuckle by a ball joint. A torsion spring assembly has a torsion tube and
a torsion bar positioned within the torsion tube. A first end portion of the
torsion bar is attached to a first end portion of the torsion tube, and a second end
portion of the torsion bar extends beyond a second end of the torsion tube and is
10 attached to the control arm. No portion of the torsion tube is immobilized with
respect to the frame. A moment bar has a first end portion attached to the
torsion tube and has a second end portion attachable to the frame.